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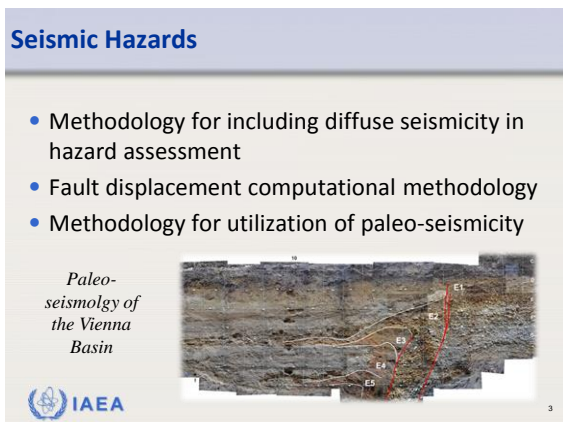
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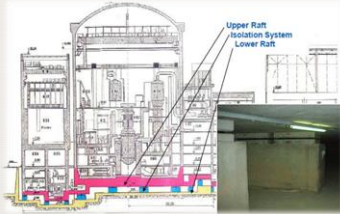
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## Seismic Design

- State of the art on the practice of base isolation in nuclear installations



*Framatome  
1000Mwe*



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## Seismic Experience

- Development of seismic experience database



*IAEA Seismic Safety  
Mission to Visit  
Onagawa Nuclear  
Power Station in  
Japan, July 2012*



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## External Events Preparedness & Response

- State of the art practices in the use of damage indicating parameters in pre- and post-earthquake preparedness and response



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## Tsunami Hazards

- Design of tsunami protection measures



Tide Embankment

*Onagawa NPP*



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## External Events Safety Assessment of Multi-Unit Sites

- Safety assessment of multi-unit sites against multiple hazards



*Kashiwazaki-Kariwa  
Nuclear Power Plant*



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## Collaboration

External Event Notification System



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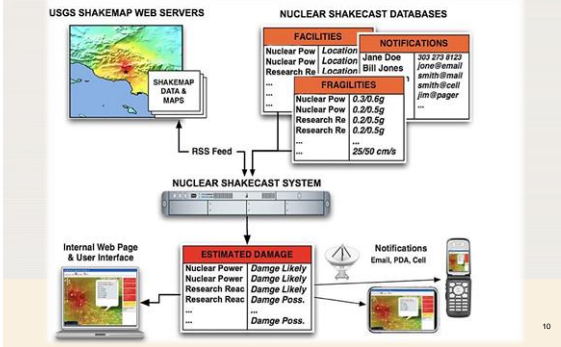
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## Nuclear ShakeCast Flow Chart




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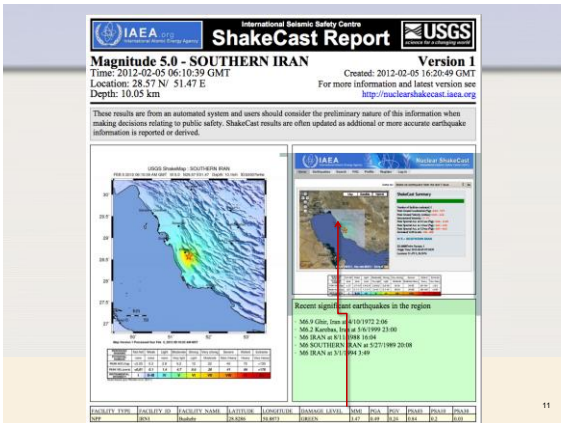
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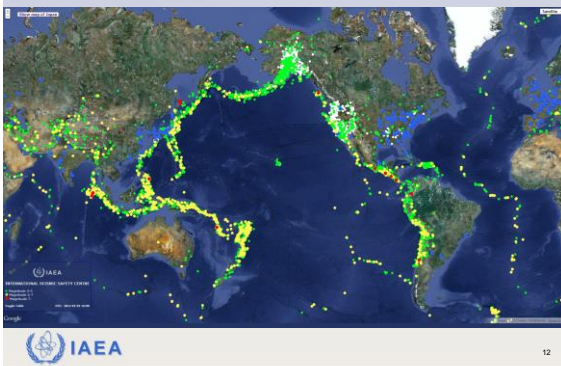
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## Global External Events Monitor - 2012




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## Global External Events Monitor




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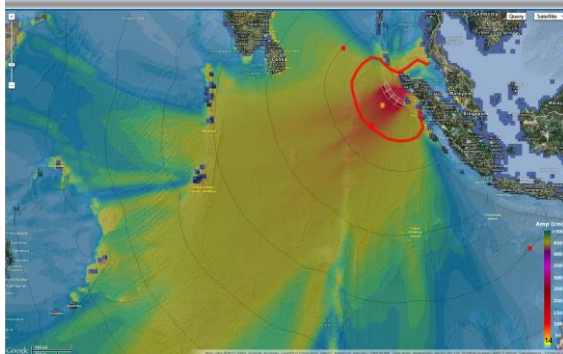
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## Tsunami Forecasting System




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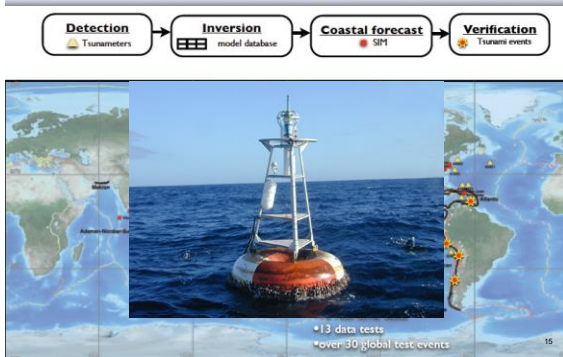
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## Tsunami Forecasting System




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*Thank you!*



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